

Notice of Allowability

Application No.

10/009,806

Examiner

Albert W Paladini

Applicant(s)

REFFNER ET AL.

Art Unit

2125

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to applicatin filed on 11/13/01.
2. ☒ The allowed claim(s) is/are 1-42.
3. ☒ The drawings filed on 13 November 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 12/31/02
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Reasons for Allowance

1. The following is an examiner's statement of reasons for allowance: Although the magnification obtained using a lens in combination with an array of photo-detectors is obtained at the expense of optical resolution since the only image information and resolution is obtained from the lens, and the scaling magnification added by the photo-detector array results only in the amplification of pixels; none of the art searched or the references cited disclose or teach alone or in combination the magnifying system combining a lens with the array of photo-detectors and the display apparatus where a portion of the magnification of the image is provided by the lens, and a portion is provided by the array of photo-detectors.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Relevant Prior Art

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kalitinsky (3735139) discloses a photo detector system which utilizes deflection coils to control position across a matrix of photo-diodes and where For example, parts of the photo cathode can be made sensitive to various frequencies of radiation by varying the material of which the photo cathode is made or by placing color a filter over selected portions of

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the photo cathode. By proper adjustment of magnetic fields and voltage on the tube it is also possible to change the size of the photo cathode area that emits the electrons that are focused on the diode array and thus change the size (or magnification) of the image being detected.

Uchiyama (5689740) teaches prior art focusing devices which utilize on photo-taking lens in combination with two re-imaging lenses and an image sensor arrays, and the re-imaging lenses are structured in such a manner that the image on the predetermined focus surface of the photo-taking lens is reduced on the image sensor arrays; hence said magnification is called the minimum magnification, and it is assumed that, as the minimum magnification becomes larger, the image on the predetermined focus surface formed on the image sensor array becomes more reduced. Moreover, filter-processing data is obtained by a filter-processing algorithm, which optimizes the relationship between low and high frequency data.

Iwata (5749570) discloses a sheet conveying apparatus which contains a reading apparatus and an information processing apparatus having such a reading apparatus, in which a photo-electric converting device directly detects the reflected light corresponding to information of an original through a transparent spacer made of glass without using the same magnification fiber lens array.

Hang (6208609) discloses an optical system for retrieving encoded information from data tracks on an optical disc, which utilizes an optical system consisting of a laser detection block containing lasers and photo-detectors which is placed a fixed distance from a bilens lens, and where changing in magnification are achieved through adjustment of the block or the bilens.


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3. Any inquiry concerning this communication or earlier communication from the examiner should be direct to Albert W. Paladini whose telephone number is (571) 272-3748. The examiner can normally be reached from 7:30 to 3:30 PM on Monday, Tuesday, Thursday, and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Leo P. Picard, can be reached on (571) 272-3749. The official fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

February 8, 2005



Albert W. Paladini
Primary Examiner
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